

## Boit prize goes to six students

### King Prize in fiction not given this year

The Boit Prize, awarded annually to honor creative writing among MIT undergraduates, has been presented to six students in recognition of their efforts.

In the imaginative fiction section, Michael Harris '68 won first prize for his collection of poems. prize for his collection of poems. Robert Fulton '68 placed second with his short story "To Karyn," while third place went to Barry Cunningham '70 for his "Landscape in Three Movements."

In the essay division, first place was won by Donald Batchelor '68 with "How shall we feel about these people?" Harold Granek '68 won second with "The Scientific Veins that Thread Ulysses." "Totalitarian Threat: An Alliance Confronted with Psychological and Institutional Failure" by Michael Devorkin '69 took third.

First prize is a \$50 bond in each division, while second and third are worth \$40 and \$25, respectively. Selections from the imaginative fiction division, including all three winners will be published in the next edition of *Tangent*.

No Ellen King Prize was awarded this year, as neither of the two entries was deemed worthy of the honor. The Ellen King Prize normally is presented to freshmen for fictional writing.

## SCE announces contest in student classroom design



Environment have teamed up to sponsor the first "Design Your Own Classroom" competition. Materials giving specific information and rules for the competition will be available next week at a booth in Lobby of Building 10, or from Maria Kivisild '69 (x5961). Deadline for entries will be Friday, May 12.

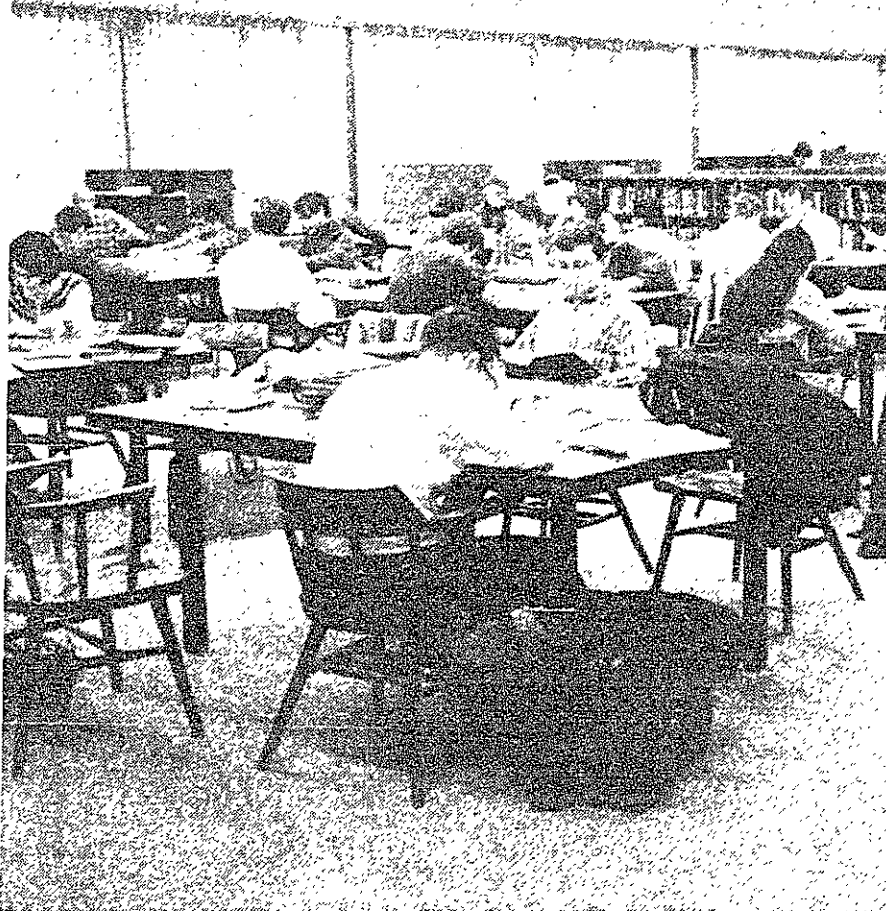
Here's an opportunity for students to reflect on their learning environment and to make suggestions of how it can be changed and improved. Prizes will be awarded to the best entries by a jury of students, faculty, and administration. The best entries will be exhibited, and the best suggestions incorporated in the new classroom.

Following the move of the Off-Campus Housing Office this summer, Room 7-102 will be converted into an institute classroom.

The Planning Office, working on an overall review of the Institute's teaching spaces, has suggested that the conversion of 7-102 offers a good possibility for students to contribute new and fresh ideas to classroom design.

Hence, the Planning Office and the Student Committee on En-

# The Tech



Vol. 87, No. 21 Cambridge, Mass., Friday, April 28, 1967 5c

### Informal counseling

## Advice of tutors extends beyond academic fields

(This is the first part of a series about the MIT Resident Tutor System.)

By Michael Warren  
When Karl Taylor Compton

asked then Assistant Professor of Chemistry Avery Ashdown to become Master of the Graduate House in 1933, he started what has blossomed into the now extensive Resident Tutor program. As of June, 1966, 138 graduate students had participated and the Administration hopes for continued expansion of the program.

A majority of fraternity houses, and all the dormitories either now have resident tutors or plan to have them in the immediate future. Fraternity tutors live expense-free in the house, with MIT reimbursing the house \$1100 for room and board. In the dormitor-

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## Greenberg probes science objectives

(This is the last in a series of articles on relations between the federal government and universities taken from a supplement to the April issue of *Technology Review*.)

By Dean Rolier

In this, the third year of the Great Society, many new trends are beginning to develop in the politics of American science. Daniel S. Greenberg, news editor of *Science* magazine, is one of the most knowledgeable members of the scientific community on the turbulent affairs in Washington which will affect MIT in the years to come.

### Patterns develop

Mr. Greenberg notes that there are two basic patterns which have taken shape under the Lyndon Johnson administration. First, dominance of politics over the national scientific community by MIT and Harvard has definitely come to an end. Thus, government funds long concentrated in certain academic centers of the country are now being spread over a far larger geographical region so that areas monetarily neglected in the past are now given preferential consideration.

Secondly, there has been far greater emphasis on applied research and a corresponding de-emphasis on basic research. Thus, Washington's concern for science is once again in turbulence as long-accepted values are now giving way to a new order.

### Uneven distribution

Much effort has already gone into attempting to find how the great lack of even distribution of scientific centers has come about. The basic cause seems to be the "forced growth" of industry induced by the federal government during wartime and other such circumstances where rapid advancements in technology are needed. Unfortunately, as Mr. Greenberg notes, growth brought prosperity and prestige to all but a few localized areas of the country which played integral parts in bringing about these improvements. This effect has tended to compound itself over time to the extent that by 1964, 50% of all Federal funds were divided among three states (Massachusetts, California, and New York).

According to Greenberg, "The prime objective of government's mushrooming investment in research and development was to obtain supremacy for this country, without regard to the costs or the subsidiary problems of regional economic impact or equity of distribution." Thus as increases in federal funds occurred, established centers of research found themselves getting far larger increases

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## Nader demands scientists remember duty to society

By Paul Johnston

Ralph Nader, speaking Wednesday evening in Kresge Auditorium, urged society in general, and engineers in particular, not to wait for a disaster on which to capitalize in setting safety standards, but rather to "foresee and forestall" risks to human lives arising from faulty automotive systems reaching the consumer market.

Nader, controversial critic of automobile safety standards and author of the recent best seller *Unsafe At Any Speed*, presented his talk "The Engineer in Society: His Ethics and Responsibilities," as part of a panel discussion sponsored by the Student Section of the American Society of Mechanical Engineers. Besides Nader, panelists included Professors Norman Dahl and Dwight Bauman, Mechanical Engineering; Bruce Mazlish, History; and Nicholas DeWolf, President of Teradyne, Inc., of Boston. Professor D. G. Wilson, Mechanical Engineering, and faculty advisor of the ASME Student Section, served as moderator.

### The environments

Nader began his talk by modifying his topic to "Engineering the Engineer." Such "engineering" was carried out, he said, in three principal environments: the university, the corporation, and the technical society. Scientists and engineers in a university are obligated, he said, to further the public safety by applying their findings to the public welfare. They must produce relevant knowledge, and distribute it to

places where it will do the most good. Thus, he suggested, the duty of a profession is to prevent the problem that the profession is designed to cope with.

### Lack of university interest

Nader claimed that no one in any United States university is interested in auto safety. No university, he observed, offers either undergraduate or graduate degrees in automotive engineering. Most of what is being done, he said, is going on at medical schools, but the quest is now being directed back to the automotive industry.

### Standards of relevance

Technological schools, he observed, have no standards of relevance. They fail to take into

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Photo by Larry-Stuart Deutsch

Ralph Nader spoke Wednesday night on "The Engineer in Society: His Ethics and Responsibilities."

## National Academy of Engineering adds five faculty members to roll

Five members of the MIT faculty are among 93 newly-elected members of the National Academy of Engineering.

They are: James R. Killian, Chairman of the Corporation; Mason Benedict, Head of the Department of Nuclear Engineering; Professor Jay W. Forrester, Alfred P. Sloan School of Management; Professor Emeritus Jerome C. Hunsaker, Department of Aeronautics and Astronautics; and Ford Professor of Engineering Arthur T. Ippen.

Members are elected on the basis of their contributions to engineering theory or practice, or because of pioneering efforts in technology. The National Academy is a two-year-old private organization which advises the Federal government in science and technology. Its total membership is now 188.

## Science history meeting planned

"Unpopular Views and Unfair Criticisms of the History of Science" is the subject of a colloquium to be presented by the Department of Humanities from 3 p.m. to 6 p.m., Tuesday. Participating in the meeting, which will be held in the Hayden Library Lounge (14E-310), will be Professor Victor Weisskopf (moderator), Professor Noam Chomsky, Professor Philip Morrison, Professor Jerome Lettvin, Provost Dr. Jerome Wiesner, Professor Cyril Stanley Smith, Professor I. Bernard Cohen of Harvard, Professor Everett Mendelsohn of Harvard, and Professor Robert Cohen of Boston University.

The purpose of the meeting is to honor Professor Giorgio de Santillana, Department of Humanities, who will retire at the close of this year. Professor de Santillana is considered to be one of the world's foremost authorities on the history of science and the relationship between science and society.



# Tutors relate course experiences

(Continued from Page 1)

ies, tutors receive free room for 12 months and commons for the academic year. The school believes that one tutor for 35 students represents the optimum conditions, and will try to increase the number of tutors, especially in the dormitories, until a comparable ratio is reached.

## Academic assistance

The primary purpose of the resident tutor is to offer academic assistance to undergraduates. However, with the increase in the number of available majors open to undergrads, a means of informal counseling, provided by a graduate student who knows the ropes of the Institute, and who can become a trusted friend of the student has become highly valuable.

Unlike house tutors employed by most other schools, MIT tutors have no disciplinary functions. They offer advice and help, mainly in the scholastic fields, but more and more in non-related social aspects of life. The tutors have become relied upon as storehouses of advice for personal problems, including drugs, girls, and career choices. The latter has been especially helpful to underclassmen who are often without any definite knowledge about the careers they are planning to enter.

## Broader outlook

It is now harder to be an effective tutor at MIT. Not only has the curricula changed, but the type of student coming to the Institute has a broader outlook than his counterpart of twenty or more years ago. The new MIT man sees the Institute as science oriented university, offering excellent combined liberal arts-science curricula. The effective tutor has to be able to dispense knowledge in a wide variety of fields, from physics to humanities, from solid mechanics to psychology.

Undergraduates, when ques-

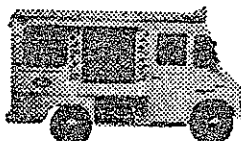
tioned, have expressed the academic function of their tutors more than the counseling function. Most believed that the tutors had made the greatest impact in helping the freshmen to adjust to the work at MIT. Also universally mentioned among fraternity men, were the quiz reviews held by tutors, and the invaluable help rendered before exams. Some fraternity men mentioned that the tutors had become integral parts of their houses, contributing more than services in the academic and counseling realms.

As in fraternities, the tutors for the dormitories, are chosen for a general background with the Institute, rather than for particular expertise in a given field. The tutors seldom only stay one year, but have tended to remain on the job for on the average of two academic years. A dormitory will generally have a number of resident tutors, grad students, and a lesser number of senior tutors, members of the faculty. Undergraduates in the dorms, like their fraternity counterparts, have,

when questioned, stressed the academic functions of the tutors. Help to freshmen in the form of quiz reviews was also singled out as an important aid of the tutors. However, many upperclass dormitory residents mentioned that they no longer made use of their house tutors, and did not have much contact with them. This situation did not exist in the fraternities, where the tutor and the undergraduates were in constant contact, whether or not it be academic in nature.

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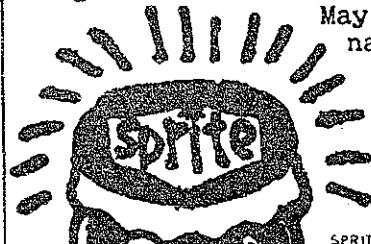
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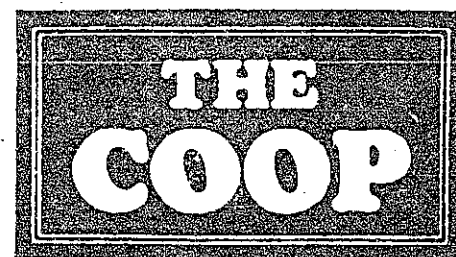
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# National Science Academy honors six from faculty

Six faculty members have been elected to membership in the National Academy of Science. Those faculty-members so honored are Professor Raymond L. Bisplinghoff, Head of the Department of Aeronautics and Astronautics; Professor Frank A. Cotton, Department of Chemistry; Professor Norman Levinson, Department of Mathematics; Professor Francis E. Low, Department of Physics; Professor Walle J. H. Nauta, Department of Psychology; and Professor Ascher H. Shapiro, Head of the Department of Mechanical Engineering.

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Crowning tonight

# Finalists named in queen contest



Jill Bromley



Holly Harper



Nancy Orear

## Tech Show '68 kicks off season with staff smoker

Tech Show is holding an Organizational Smoker Wednesday in the Student Center, Room 473 at 4:30 pm for all people interested in working in any capacity for Tech Show '68 on the production, artistic, or business staffs. Anyone interested in writing should plan on attending the meeting. Scenarios should be submitted to Professor A. R. Gurney, Department of Humanities, or Ellen Greenberg '68 at McCormick Hall by Wednesday, May 10.

Deloss Brown '63 has been selected as Director of next year's production. He was co-author of Tech Show '63 and has appeared in subsequent Tech show and Dramashop Productions.

Call General Manager Ellen Greenberg, x5961, if you have any questions, or if you cannot attend the meeting.



Linda Parobek



Phyllis Weidner

The six finalists in the Spring Weekend '67 Queen Contest have been selected from among thirteen candidates. The girls were chosen by the student body through a ballot last week at a voting booth in the lobby of Building 10. Their names will be submitted to the Spring Weekend Committee for the final choice. The Queen will be crowned tonight.



Cindy Zwerner

The girls selected as finalists are: Jill Bromley from Haska, Illinois, escorted by Mike Thomas '68 (DTD); Holly Harper from Jackson College, escorted by John Yasaitis '68 (CP); Nancy Orear

from Wellesley College, escorted by James Bixby '68 (ATO); Linda Parobek from Bowling Green State University of Ohio, escorted by Larry Dehner '68 (DU); Phyllis Weidner from Northern Illinois University, escorted by Joe Campbell '68 (PGD); and Cindy Zwerner from Indiana State University, escorted by Guille Cox '68 (SAE).

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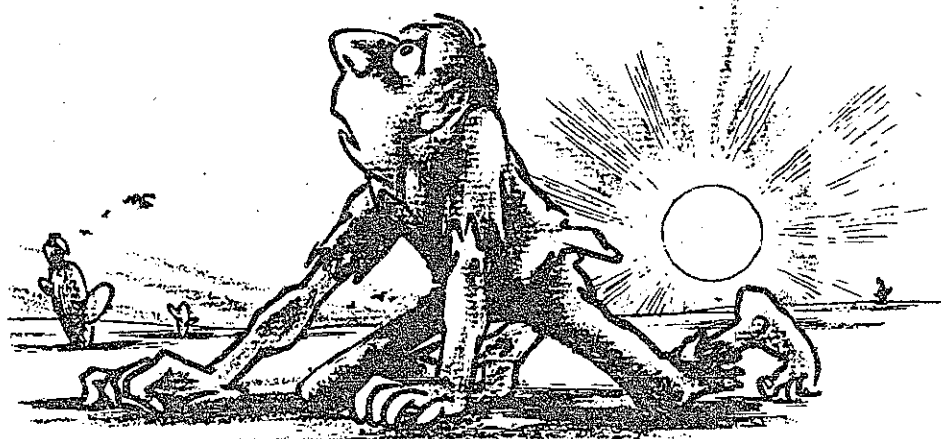
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# Is the trip worth it?

Increasingly the proponents of LSD are finding themselves up against what has become an avalanche of reputable medical data debunking or at least stultifying whatever beneficial effects there are from the use of the chemical.

Just recently the director of the University Health Services at Harvard issued a report on drugs dealing with marijuana and LSD which summed up some of the principle dangers of them. It concluded, "in the opinion of many informed persons, it (LSD) is a greater menace to users than even addictive narcotics."

There have been reported cases of prolonged psychotic reaction from LSD lasting up to two years.

The drug reduces the takers responsibility—his individual judgment is impaired. So much so that the Harvard report said: "in our judgment now, after a careful study of the effects of LSD, we consider it inadvisable for an individual who takes even one dose of LSD to make a major decision about himself for at least three months."

A person taking LSD may believe

certain facts are no longer valid for him, such as vulnerability. "They see in their experience only what they wish to be true about all other truths."

Freedom and Powelson reported in the Nation on January 31, 1966: "LSD enthusiasts talk of religious conversions, the awakening of artistic creativity, the reconciliation of opposites. The main change to be observed in such individuals, however, is that they have stopped doing anything. The aspiring painter talks of the heightening of his aesthetic sensibilities and skills, but he has stopped painting. The graduate student who withdrew from writing his dissertation in philosophy talks of the wondrous philosophical theories he has evolved. But nothing is written. It seems that the world of fantasy has become far more compelling than external things. Indeed, fantasy is substituted for reality."

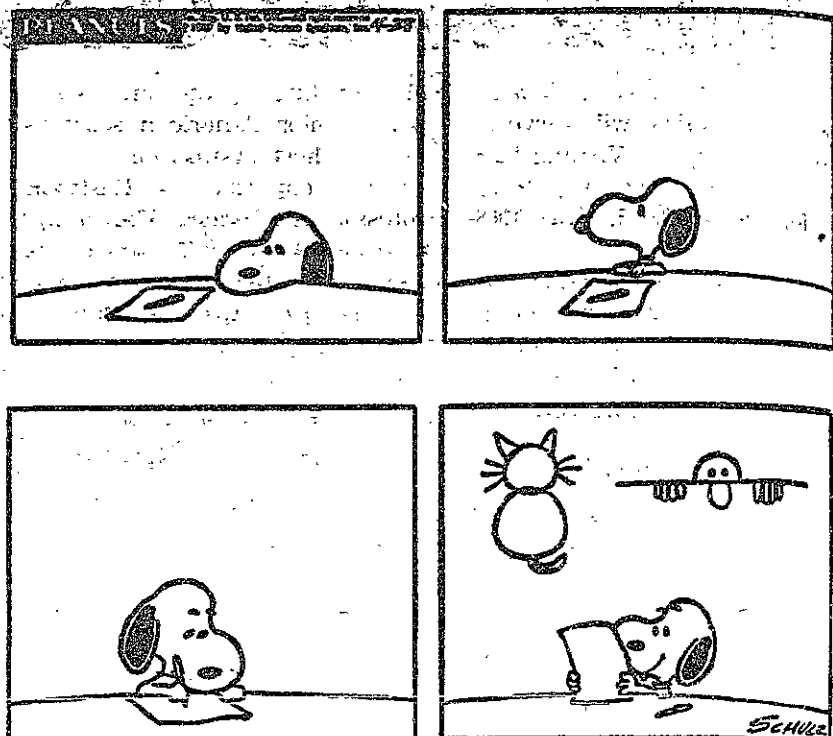
Even if this is exaggerated, there is nonetheless, a danger of long term subtle psychological damage which may eventually lead to psychic breakdown.

And most recently, the investigation by such men as Dr. Jerome Letvin into possible structural damage to the brain from the drug is producing some preliminary positive results.

The Harvard report concluded, "The medical evidence is clear. Any person taking LSD runs the clear risk of psychotic breakdown and long-run physiological damage."

No doubt the disclaimers will continue to believe in their own prophets. Some would believe in friends who have been on a "couple of trips" or a spokesman with a following and a financial stake in the future of LSD rather than a reputable scientist in pursuit of the truth.

Even in the face of medical data, those who remain unconvinced still feel justified in experimenting on themselves. To those who choose to shrug off the medical case, there is another line of reasoning—LSD has been declared illegal in most places. To become involved with LSD and then get caught can mean the end of a career before it is ever begun. A permanent blot on one's record is too often that—permanent. Does it really make sense to jeopardize a productive future for a medically-dangerous experience of the moment? Is the trip worth it?



## Looking Back

By Lee Shaeffer

25 Years Ago

An editorial in the TECH urged the abolishment of all final exams, in order to place emphasis on learning, rather than cramming.

It noted that most professors in the course of the year mention something to the effect that they regret having to give a final, and adds that the final exam is one of the evils of our modern educational system.

One of the inherent disadvantages the final exam system has, it was noted, is the tendency for an individual to slide during the course of the year and to count on the final to pull up his grade.

A system of several comprehensive examinations spaced at nearly equal intervals during the term, each having equal bearing on the final grade, was suggested. This, the editorial said, would cause the students to absorb the knowledge over a period of time. Under the present system it was possible for a student to "choke" or otherwise needlessly ruin his grade because of a single examination given on a single day. It only harms the students, and the reputation of the Institute.

From president to dean

Kenneth R. Wadleigh, '43, was selected president of the M.I.T.-A.A. by the 40 team captains, managers, and present officers. The current Dean of Student Affairs had served the year before as track manager.

The racial and national prejudice many object to in 1967 existed back then on a grander scale. It seems the Japanese so objected to being called "Japs" that they persuaded their German allies to chastise the offending British with a threat that in the future they may be called "Brits." The English quickly replied by telling the Germans that henceforth they would be known as "Germs."

The mail fail

A certain freshman carefully packed his laundry one April morning, in the hopes of sending it home. He lugged it across the bridge to the Superintendent's office where the required amount of postage was purchased and it was dropped in the mail. He got home that night and found a large package waiting for him. His curious fraternity brothers gathered around and watched him unpack what they thought was a "care" package from home — and was in reality full of dirty laundry. The surprised freshman, after examining the mailing label, uttered something to the effect that, being in a hurry, he had reversed addresses, putting his mother's in the return slot and vice versa. Maybe it was just a bad case of spring fever.



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Front page photo of Student Center library by Lew Golovin.

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## Letters to The Tech

### Music review reviewed

To the Editor:

Reviews by The Tech of campus concerts display an attitude that must be very disturbing to MIT musicians and their conductors: Judging from recent reviews, the majority of The Tech's music critics possess less musical judgment than many members of the MIT performing music organizations; yet these same writers think themselves qualified to judge a concert performance at MIT.

In May of 1965 (which is as early as I can remember this problem) The Tech criticized the MIT Concert Band's performance in that year's Spring Festival of Music on the following basis: Everyone likes a Sousa march, so why play so much contemporary music? True, most people enjoy a Sousa march now and then; but, as I think most Band members would agree, much of contemporary literature for band represents a far more significant contribution to the present musical scene than do Sousa marches. And the writer nearly overlooked the fine performance of an outstanding contemporary composition — Paul Hindemith's *Symphony in B-flat*.

The review of the Symphony Orchestra concert of December 4, 1966, displayed a similar attitude, as Mr. Wendell Brase's letter printed in The Tech of December 16, 1966 aptly pointed out. And the reviewer even presumed to strongly criticize several of Mr. Epstein's interpretations. The fact is that the points of contention were matters of musical taste, not musical judgment; moreover, Mr. Epstein's musical taste and judgment probably well exceed the reviewer's.

As a final case in point let us examine Mr. Ray Hagstrom's review of the April 16, 1967, MIT Symphony Orchestra concert (the review appeared in The Tech, April 21, 1967). First, Mr. Hagstrom might be interested to know that Bach wrote not one *Brandenburg Concerto* (as the second paragraph of the review implies), but actually wrote six—the orchestra performed the fourth. Why he determined this "The most important work on the program he does not state; but tape recordings of the concert verify outright that the performance was not as he described it. And he completely neglected the intonation problems that developed in the extremely difficult sec-

ond movement and the terribly out-of-tune harpsichord.

Regarding the Gerhard Dances from *Don Quixote*, it is very likely that the orchestra "Did not understand the musical import of the phrases they were playing." But I doubt that Mr. Hagstrom did, either; otherwise he, as a music critic, would have explained the importance of the Gerhard composition.

The commentary on the performance of Dvorak's *Fourth Symphony* (the new 8th, old 4th) is self contradictory: "Mr. Epstein was able to marshal them (the orchestra) to his own interpretation of the piece... the technical aspects of the performance were not good enough for the director's interpretation to show through." If the director's interpretation did not show through, how could have "Mr. Epstein marshalled them to his own interpretation?"

Having now criticized the orchestra, Mr. Hagstrom apparently feels compelled to compliment it. He lauds the fine flute solos in "Bach's *Brandenburg Concerto*," but he overlooks the outstanding bassoon and flute work displayed in Dvorak's *Fourth Symphony*.

It is true that no performer

likes a bad review. It is also true that a bad review by a competent critic can aid a performing organization; yet a bad review by an incompetent critic serves no purpose and, when not read properly, is harmful. Most members of performing organizations, especially amateur organizations, welcome a review by a competent critic. But The Tech, it appears, has yet to produce a competent critic.

Most disturbing, however, is the general attitude of the reviews: uninformed writers make value judgments concerning the very matters about which they are uninformed. It would seem more logical, The Tech publish a review by a competent critic or to publish no review at all.

R. Kent Stockwell '68  
(Ed. note: It seems that The Tech music reviewers lead a precarious existence. They can laud MIT musical efforts ad nauseam, but let them criticize and The Tech receives a barrage of angry letters. In answer to specific charges, the fact that "Fourth" was omitted before "Brandenburg Concerto" was an editor's error. In any case, mention of this error is but a bit of peevish pedantry. As to

"intonation problems" Mr. Hagstrom covers this in the statement "The accompaniment on the piece was lacking clarity." The statement that "Mr. Hagstrom did not understand [the musical import] either" is totally unjustified. A review is not a remedial course in musicianship, it merely points out faults. Mr. Stockwell goes on to grossly misquote the review. He omits the essential phrase "In general" from the quotation. It is evident that Mr. Hagstrom means that what he says of the Dvorak piece is not true of the performance "in general." He does not neglect the bassoon and flute, as he mentions "the performance of several of the woodwind players" as being noteworthy.

Let us remember that a review in The Tech is an opinion. The Tech need not defend its reviewers, nor offer their credentials, although, in this case, the reviewer has had substantial experience in this field. Mr. Stockwell, also, has an opinion. But he presumes to foist his opinion as dogma, and impugns the Tech's music critics in general. He would do well to learn from adverse criticism, rather than bridle at it.

# Solow to fill Oxford post

Dr. Robert M. Solow, Department of Economics, will serve as the George Eastman Visiting Professor at Oxford University, England, for the academic year 1968-69.

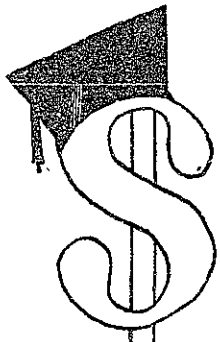
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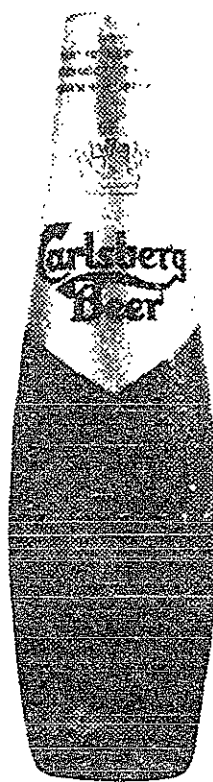
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# Safety experts must act, rather than court disaster

(Continued from Page 1)

account the harmful ends of technology and instead concentrate on its advantages. "Don't wait for a disaster to make the most of," Nader told his audience, but try to "foresee and forestall" the risks in the first place. Such an operation, he said, is a creative challenge to engineering experience.

In the corporate environment the engineer is subject to the corporation. According to Nader this set up tends to crush individual initiative. Many engineers, he observed, are in a position "similar to peasants in the Middle Ages, who didn't know they were serfs."

A technical society, he said, might be called a "manufacturer's association," and works on a consensus principal that allows one company to veto "what thirty others want." For example, Nader observed that the Society of Automotive Engineers has never published a paper criticizing the products of the automobile industry; one critical paper was rejected as being "too technical."

"Where" asked Nader, "is the recourse?" There is now, he said, no internal review, and no external judicial review, although he expects more in the future. But, he said, it "requires an act of courage to make a statement of truth in our companies today." A change in this policy will come, Nader said, only as a result of persistent challenge from outside the automotive profession.

## Changes in schedule for Horizons lectures

There have been two changes in the schedule of speakers for the MIT "Horizons" lecture series. Professor Robert Fano, Department of Electrical Engineering, originally scheduled to speak May 15, will lecture instead on May 1 on "Computers as Intellectual Aids." Professor Frank Press, Head of the Department of Geology and Geophysics, originally scheduled for Monday, will speak May 15 on "Contemporary Planetary Science."

# Equalization of funds seen in federal research aid

(Continued from Page 1)

in appropriations than newly developing institutions. In addition, large industrial complexes tended to cluster about academic centers as exemplified by the sudden flourishing of Route 128 around Boston.

Congressional interests

In recent year, however, Congressmen have become more interested in the development of industry and have consequently tried to "bring industry to their constituents." As a result, funds originally intended for large centers of research have often been diverted to provide for the development of new academic centers, much to the chagrin and dismay of the former.

A similarly threatening trend

is the increasing emphasis on utilitarian research. The Vietnam war has also served to accentuate this tendency. Many researchers are now unable to secure funds for the basic research that is still the backbone of all applied research.

Concern shown

Mr. Greenberg quotes a resolution adopted by the American Society of Biological Chemists indicating their concern with the developing situation: "As our nation undertakes to address those serious and immediate problems which affect our society and ourselves and which urgently require technical solutions, we must never lose sight of the fact that the technology of tomorrow must rest on the fundamental research of today."

Mr. Greenberg thus concludes that to meet the needs of government, research, and society a new sort of "scientific statesmanship is called for. Science is far too important to be left exclusively to scientists."

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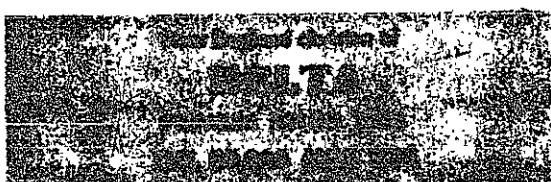
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### Correction

The Tech regrets a typographical error in LSC's recent advertisement for the coming appearance of Timothy Leary and Professor Lettvin in Kresge Auditorium. The appearance will be at 8 p.m. Wednesday—not May 31 as indicated.

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### music . . .

## Lowell Ensemble premieres Nelhybel

By Ralph Earle

In Kresge Auditorium last Sunday evening the Wind Ensemble of Lowell State College gave the New England premiere of Vaclav Nelhybel's 'Symphonic Requiem.' As directed by Willis Traphagan, the 'Requiem' is a very impressive work in the sense that it arrests its listener and demands his involvement.

#### Forboding introduction

The opening Preambulum is a short, forboding introduction which establishes the ominous presence of Death by percussive statements of the first four notes of the Dies Irae in diminished form. The Motet which follows anticipates the text of the fourth movement by its lyrical, contemplative nature. The initial optimism of the trio of oboes and English horn is first augmented by the rest of the double reeds and then challenged by the family of saxophones.

#### Latin text

The sixth-century Latin text, from Venatius Fortunatus, contemplates the ultimate uselessness of man's physical power, his music, his poetry, his beauty, but tries to wrest meaning from the good deeds of the just. Here Nelhybel's music seems to argue with his text, rather than reinforce it. An attempt by the brasses to end the work with a distant but hopeful chorale is

blocked by the rest of the band in the relentless spirit of the first and third movements and leaves the listener wondering, in musical terms, which emotion is true.

The performance, the highlight of the evening, was generally excellent. The ensemble playing was tight, controlled and balanced and the solo playing was consistently fine. In the only noticeable slip in intonation of the evening, the opening trio of the second movement was shaky and the players' concern for pitch and balance allowed the movement to become static. The individual parts were played musically, but there was no overall forward motion. Special notice should be made of the percussion section which handled their extremely complex and exposed part in the Passacaglia with precision and style.

#### Soloist in ensemble

Having Dean Bouzianis, the soloist, stand within the ensemble was a good idea, for the solo line is written very much as an integral part of the texture. This contributed to a lack of sufficient clarity in the text which could not be distinguished without recourse to the program notes. But musically his performance was appropriate, especially in vocal timbre, and technically well-executed.

Also on the program were the 'Festival Overture' of Shostakovich, Hindemith's 'Symphony in B Flat' and the 'Lincolnshire Posy' of Percy Grainger. The reading of the titanic Hindemith 'Symphony' was notable for its clarity and accuracy, except for a portion of the second movement during which the upper winds let dotted-eight-and-sixteenth figures lapse into triplets. The performance was, however, a little too straight-forward. Greater dynamic contrast at, for example, the early oboe theme and later the sinuous woodwind melody in the first movement would have added more life to the work.

But the general absence of dynamic variation was not enough to keep the clean, accurate playing, excellent intonation and fine balance, both within and among sections, displayed by the Wind Ensemble of Lowell State College from combining to give a first-rate performance of an extremely worthwhile program. The musical community of Greater Boston should be embarrassed for having sent so meager an audience.

### Movies and theatres

Astor—'Hombre,' 9:40, 11:40, 1:40, 3:40, 5:40, 7:40, 9:40; Sun.: 1:10, 3:10, 5:10, 7:10, 9:10.  
Beacon Hill—'How to Succeed in Business Without Really Trying,' Mon.-Thurs., 2:30, 8:30; Fri. and Sat., 2:30, 7:45; Sun., 2:30, 5:30, 8:30.  
Boston Cinerama—'Grand Prix,' Cheri I—'Man for All Seasons,' 8:40; Wed., Sat., Sun. mat. 2:30; Sat. 7: Sun. 5:30.  
Cheri II—'Taming of the Shrew,' Mon., Tues., Thurs., Fri.: 8:30; Wed., 2, 8:30; Sat.: 2:30, 7, 9:30; Sun.: 2, 5:15, 8:30.  
Cinema Kanmore Square—'Night Games,' 2, 4, 6, 7:45, 9:45.  
Circle—'Thoroughly Modern Millie,' Mon., Tues., Thurs., Fri.: 2, 8:30; Wed., Sat.: 2, 8:30; Sun.: 2, 8:30.  
Esquire—'Man and a Woman,' Daily: 7:30, 9:30; Sun.: 3, 5, 7, 9, 10:45.  
Fine Arts—'8½,' 5, 8:15; 'Eclipse,' 7, 10:45.  
Harvard Square—'Who's Afraid of Virginia Woolf?,' 4:05, 9:45; 'King Rat,' 2:25, 7:25.  
Music Hall—'One Million BC,' 10, 12, 2, 4, 6, 8, 10; Sun.: 1:30, 3:30, 5:30, 7:30, 9:30.  
Orpheum—'The Cool Ones,' 10:45, 12:30, 2:25, 4:15, 6:05, 8, 9:50; Sun.: 1:40, 4, 6:20, 8:10, 10.  
Paramount—'Hud,' 12:10, 4:50, 9:30; 'Hatari,' 9:40, 2:20, 7.  
Paris Cinema—'Blow Up,' 2, 4, 6, 8, 10.  
Park Square Cinema—'A Man and a Woman,' 2, 4, 6, 8, 10.  
Savoy—'Countess from Hong Kong,' 10, 12, 2, 4, 6, 8, 10; Sun.: 1:30, 3:30, 5:30, 7:30, 9:30.  
Saxon—'The Bible,' every nite 8:15; Sun., 7:30; Mat. at 2:00; Wed..

Sat., Sun., holidays and Sat. at 10 am.  
Symphony I—'My Sister, My Love,' Mon.-Thurs.: 10:30, 12:25, 2, 4, 6, 8, 10; Fri.-Sat.: 1, 3, 5, 7, 9, 11; Sun., 2, 4, 6, 8, 10.  
Uptown—'Dr. Zhivago,' Daily: 10, 1:25, 4:55, 8:25; Sun.: same exc. no 10.  
West End—'I, A Woman,' 11:45, 1:45, 3:45, 5:50, 7:45, 9:45.

### NASA chooses 4 to investigate moon's surface

Two geophysicists, a geologist and a chemist at MIT are among 110 scientists chosen by NASA to conduct experiments with the first samples of moon's surface that are returned to earth by UE astronauts.

Dr. M. Gene Simmons, professor of geophysics, will conduct four experiments in order to determine various thermal, elastic and electrical properties of the surface material.

Dr. David W. Strangway, assistant professor of geophysics, will attempt to measure magnetic properties of the samples. He thus hopes to determine the possibility of a lunar magnetic field at some time in the past.

Using radioactive nuclides with long half lives, Dr. Patrick M. Hurley, professor of geology, hopes to determine the age of the lunar surface. While Dr. Klaus Biemann, professor of chemistry, will analyze samples for organic molecules.

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# Gilbert & Sullivan . . .

## G & S Society's 'Mikado' inventive but uneven

By Barry Mitnick

"The Mikado" is perhaps the best known of all the Gilbert and Sullivan operettas. Unfortunately, the Gilbert and Sullivan Society's visually inventive production, did not do full justice to either the operetta's well-deserved reputation or comic possibilities.

### Sets and costumes

Barry Young designed sets and Judith Dean Adams, costumes, that were striking and imaginative, and Stephen Weinberg directed a smoothly and beautifully performing orchestra. Illuminated chiffon-like lollipop trees, a fanciful screen covered with circles and triangles, orange for one act, blue for the other, and multi-hued cut out circles projected on the thin white stage curtain, lent a delightful never-never land air to the performance. The male and female choruses were attired in vividly contrasting black and white costumes that bordered on uniforms in their geometrical displays. While such uniform rigidity might be fitting for a male chorus

that is expected at times to represent "the mighty troops of Titipu," it is certainly questionable for "schoolgirls, we, eighteen and under."

The emphasis on the geometrical fundamentals which seem to have been intended to universalize "The Mikado" and escape the hackneyed pigtailed pseudo-Japanese props, should have avoided the choruses. The stiffly exaggerated hand movements of the male chorus, for example, produced less humor than stiffness. The men were generally positioned as a close-ordered group or in regular lines with the chorus's heavy face make-up and rigid posture, the visual appearance of a song was rather more Greek than Gilbert.

### Varied vocalists

Vocally, the show boasted performances ranging from the outstanding to the dismal. Kresge's hugeness is difficult to overcome, but the two robust choruses and all but one of the leads managed its vastness well. That one excep-

tion, Robert Landley as Nanki-Poo, was frequently simply inaudible. Susan Waldman, as Yum-Yum, however, delivered her songs in a clear, beautiful, floating tone and was a sparkling contrast in their common songs.

Herbert Meily deserves more superlatives than the unabridged contains for a scintillating, show-stealing portrayal of Poo-Bah. His blustering, bombastic, hypocritical "swell" wasn't the center of attention only when Barnett Glickfeld as the Mikado managed to elicit belly laughs from even the most ordinary of his lines. Jacqueline Meily growled, threatened, and finally pleaded in a taut and winning characterization of Katisha. Michael Berger, however, as Ko-Ko, couldn't sustain the hilarity that Gilbert gave his role. Ko-Ko is something of a clown, something of a coward, but all of a character. But Mr. Berger couldn't seem to decide whether to play Ko-Ko as a child-

ish adult or a grown-up child. Ko-Ko is capable of both low comedy and the cunning of the "Titwillow" scene, and it is in discerning such subtleties that Mr. Berger fails.

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## Harvard's 'Yeomen' lacks singers

By Barry Mitnick

Sandwiched between the first wave of conductor James Paul's vigorous direction and the finale's enthusiastic applause, is the Harvard Gilbert and Sullivan Players' production of "The Yeomen of the Guard."

The Harvard production is characterized by a delightful ebullience that largely overshadows a few serious flaws. Mr. Stephen Michaels' direction is brisk and animated; he successfully "opens up" the cramped Agassiz Theatre stage with a good deal of action and some well blocked-out crowd scenes. Charlotte Prince's costumes are colorful, and Randali Darwall's rock-walled sets, impressive. And the orchestra, under the direction of James Paul, is a superbly disciplined and performing unit.

"Yeomen's" main problem is a dearth of good singers. With the notable exceptions of Danius Turek as Fairfax and Jennifer Kosh as Elsie Maynard, the cast had difficulties with volume, quality, and, to a lesser extent, enunciation. Mr. Turek has a big, rich "Student Prince" voice and a commanding way of using it. Mary Duffy as Dame Carruthers,

however, and the solos of the male chorus were barely audible. The production is rescued by several sparkling comedy performances. Richard Backus repeatedly brought down the house with his broad clowning in the role of Wilfred the jailor. His duet in the second act with David Cole as Jack Point was nothing short of hilarious. Norma Levin as Phoebe has an infectious smile and an engaging impishness that well complemented Mr. Backus' buffoonery in their scenes together.

The death of Jack Point at the show's end is the only tragedy extant in Gilbert and Sullivan,

and the part of Jack Point is therefore an unusual one for a G.&S. operetta. The actor has the opportunity to inject a measure of depth in his portrayal, thus escaping the familiar pattern of G.&S. comic stereotypes. Although David Cole is a nimble, lively, and enthusiastic Jack Point, and is responsible for some of the show's funniest moments, his characterization of the jolly exterior — broken-hearted jester is more affected than affecting. Jack Point's death seems almost an afterthought; there is too little of the plaintive or poignant in Mr. Cole's energetic pursuit of laughs.

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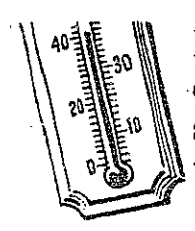
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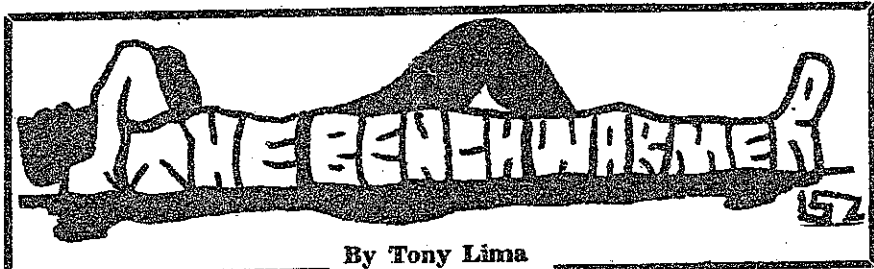
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By Tony Lima

Three new coaches have been hired by the Athletic Department of Athletics. Harold (Hatch) Brown has been named Associate Sailing Program Director, Bruce D. Wright is the new gymnastics coach, while Richard K. Randall will direct the freshman tennis and squash teams.

Brown is a 1959 graduate of Boston University. While there, he led the BU sailors to four Greater Boston Dinghy Championships, three Middle Atlantic War Memorial Regatta titles and the New England team racing trophy. In his senior year, he won the New England Intercollegiate single-handed crown. While at BU, he served as sailing team captain, chief undergraduate sailing instructor and vice-president of the

New England Intercollegiate Sailing Association.

An Associate Sailing Program Director, he will be in charge of long-range planning and public relations, with an eye to improving the public knowledge of Tech's fine sailing team.

#### Gymnastics

In anticipation of the still-to-be-formed varsity gymnastics team, the Department has appointed Wright as gymnastics coach and Physical Education instructor. A 1965 graduate of Springfield College, Bruce also received his MS from that institution. While there, he acted as assistant gymnastics coach during the 1966-67 school year. He was named most valuable gymnast in 1962 and most valuable varsity player for his work on the tennis team in 1965.

Richard Randall will head the freshman tennis and squash teams next year. A member of the class of '63 at Springfield, he will receive his graduate degree from Penn State this spring. He has been coach of cross-country, track and soccer at Bucknell, and has versatility which should make him a valuable addition to the coaching staff.

The next meeting of the Intramural Council will be on Tuesdays, May 9. Included on the agenda will be elections for football and cross country managers and action on the IM Point elimination motion.

## Tech nine loses, 7-2; WPI scores 5 in fifth

By Larry Kelly

Tuesday afternoon, a baseball squad from Worcester Polytech put MIT's nine back under the .500 mark, 7-2. The game featured a five-run fifth inning for Worcester.

Rick Young '68 doubled in the second inning and scored on a single by Ed Richmond '67. Ron Norelli '67 led off the third with a triple and also scored on a single off the bat of Jeff Weissman '69. But Gary Bossak, the Worcester pitcher, promptly tightened up and allowed only 3 hits for the remainder of the game.

For Worcester, Dave Moore started the fifth with a single,

Bossak walked, Mike Scott sacrificed. Bill Newton lined a two and two pitch for a double and 3 RBI, and Tech was down, 4-2. On two more singles and a walk, Worcester added 3 more runs, to make it 7-2.

Bill Dix '67 was the losing pitcher, allowing 6 runs and 7 hits in his 3 inning stint. Bossak gave up 9 hits and two earned runs, striking out 7.

Tech failed to mount a serious threat after the third inning, but stopped a WPI rally in the sixth when Worcester had men on first and third. Bob Tillman '69 got Bill Newton to pop to Lee Bristol '69 at short to end the inning.

### Frosh sports

## Wheeler pitches 2-hitter

By Mike Schibly

Bruce Wheeler pitched a two-hit ball game against New Prep last Wednesday in a 6-2 engineer victory. Bruce struck out eleven men and walked only two in his second win of the season.

The big inning for Tech was the second. Ron Kole was walked to open the inning, and Rich Freyberg followed with a double. Darrell Kadunce took a full count and was walked to load the bases; three more walks emptied them and gave MIT a three run lead.

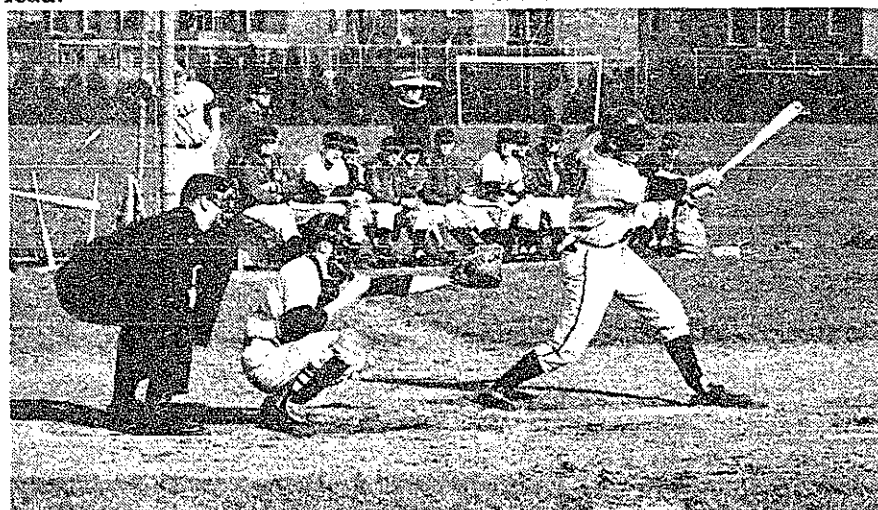


Photo by Steve Lee

Ron Kole follows through on a swing in which he grounded out to third to end the sixth inning. MIT went on to beat New Prep by a score of 6-2, as Bruce Wheeler pitched a two-hitter for the victory.

The engineers added two more runs in the fifth, when Kole went to first on an error, Freyberg was walked, and Kadunce and Steve Lonski drove in runs with singles. Don Riley was walked around the bases in the seventh for the final Tech score. New Prep's only runs came in the sixth on two errors and two fielder's choices.

The victory was the second of the season for both Wheeler and the Tech nine, boosting their record to 2-2.

Record now 5-4

## Lacrosse team downs WPI, 11-5

By Herb Finger

Greg Wheeler '67 brought his season's totals to 14 goals and 3 assists Tuesday as he led the MIT varsity lacrosse team to their fifth victory in nine games over WPI. Wheeler, who netted two goals in less than a minute, accounted for four of the eleven MIT points.

Three minutes into the first period Wheeler fired the first of his unassisted quartet. WPI then went into its only offensive threat of the day as they quickly popped in two goals. Art Von Waldburg '67 put in his first goal of the afternoon as he took a pass from Julie Gutman '68 off the crease.

Arthur combined with Ken Schwartz '69 for goal number three in the closing minute of the first period. Drifting right, Von Waldburg spotted Schwartz off the crease on the left and rifled the

ball across, giving Kenny an easy quick-stick into the goal. The score at the half stood 5-2.

Halfway into the third period Wheeler fired in numbers six and seven on shots identical to his first. Von Waldburg then followed suit scoring goals eight and nine, taking passes from Gutman and Maling respectively.

Steve Schroeder '67, who had a poor day point-wise but who was often on the spot, charged in alone and rifled the ball low for goal number ten. A few minutes later, Wheeler closed out the scoring, bringing the final score to MIT 11, WPI 5.

Tomorrow Tech heads for Bowdoin in Brunswick, Maine, with UNH on tap for Tuesday's match home. Tech should then be ready for their last big three against UMass, Williams, and Wesleyan.

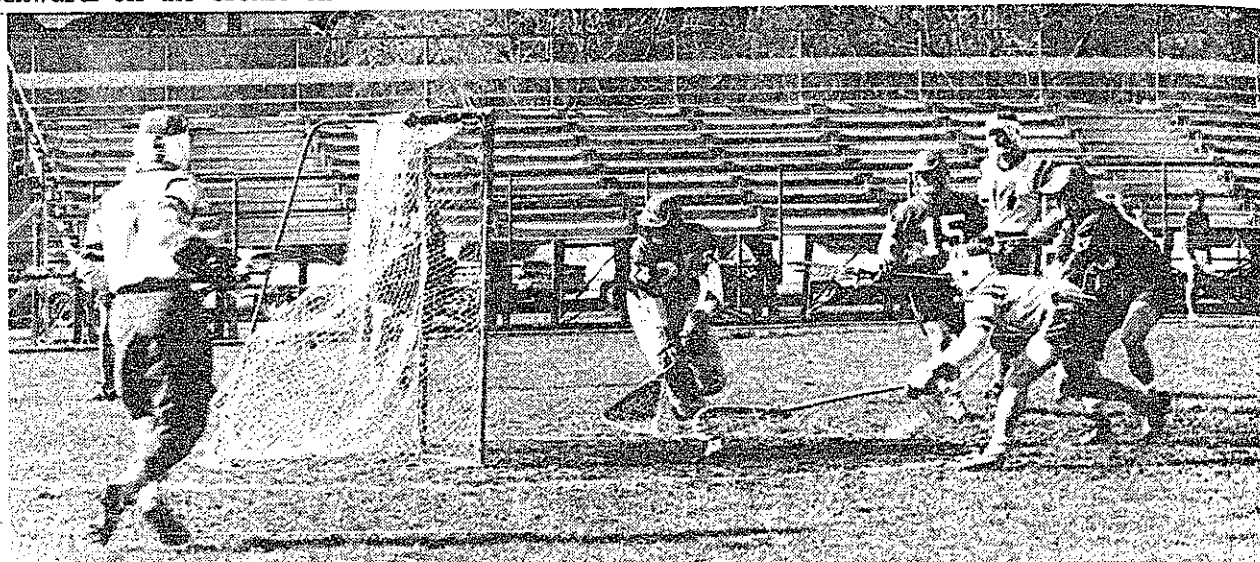


Photo by Bill Ingram

Ken Schwartz '69 nets his second goal at 14:54 of the second quarter in Monday's game against WPI as Julie Gutman '68 (#7) and Walt Maling '69 (#14) move toward the goal to back up the shot. A good team effort gave the varsity the 11-5 win, boosting their season record to 5 wins and 4 losses. Their next game is tomorrow at Bowdoin.

### On Deck

**Friday, April 28**  
Baseball (V)—Bates, here, 3 pm  
**Saturday, April 29**  
Tennis (V)—Williams, here, 2 pm  
Track (V&F)—Bowdoin, here, 12:30 pm  
Tennis (F)—Belmont Hill School, here, 2 pm  
Baseball (F)—Stevens Business College, here, 2 pm  
Lt. Crew (V, JV, F)—Geiger Cup at NYC  
Hvy. Crew (V, JV, F)—Compton Cup at Harvard  
Lacrosse (V&F)—Bowdoin, away, 3 pm  
**Sunday, April 30**  
Sailing (V)—Octagonal at Stonehill  
Women's Sailing-Regatta here  
**Monday, May 1**  
Golf (F)—Harvard, here, 12:30 pm  
Lacrosse (F)—Tufts, here, 4 pm

### Intramural Sports

## Five teams remain unbeaten in third week of softball

By Joel Hemmelstein

Intramural softball roared through a fast week and a half of action as many cancelled games were replayed. Manager Steve Pease '69 announced that unless the weather brings more rain, snow, hail or sleet, the playoffs would be during the week of May 8.

At present the only unbeaten teams in the major division are Burton A and C, Phi Delta Theta, Lambda Chi Alpha and Senior House. However, one more week of competition remain.

In various games over the last two weeks, Lambda Chi rushed to

two victories over Phi Kappa Theta, 15-5, and a squeaker past Burton B, 1-0. Burton A defeated Zeta Beta Tau 13-1 while the Phi Deltas scored sixteen to Sigma Phi Epsilon's six early this week. The Sig Ep's suffered another loss to the East Campus Lounge Lizards, 12-9.

Senior House nipped Theta Chi in a 12-10 slugfest. The various Burton teams are faring well thus far into the schedule. Burton C walloped 21 hits and 17 runs to defeat NRSA. The D squad trounced Theta Delta Chi, 17-7 as the ten run rule was invoked in the sixth inning. Burton F wiped out Delta Kappa Epsilon, 19-0 while the I team received a 9-0 forfeit from the Baker Twichers.

Probably the most interesting contest was played between Club Latino and Phi Beta Epsilon. Tied 24-24 after regulation play of seven innings, the game went into extra innings. However, the Club Latino powerhouse quickly racked up 6 runs and the 30-24 victory.

## Dartmouth blanks Tech racketmen

By Jon Steele

At Hanover Tuesday, the netmen bowed to Dartmouth 9-0, despite good performances by most members of the squad. Dartmouth placed second behind Harvard in the ECAC's last fall, and was strong all the way down the line.

Rich Thurber '67 faced Charles Hoeveler, the ECAC singles champion. Hoeveler's twisting serve and accurate net game won the first set easily at 6-1, but in the second Thurber turned on his own serve-volley game and stayed even until Hoeveler finally broke through in the tenth game with four beautiful passing shots to win 6-4. John St. Peter '67 also dropped his first set quickly, then rallied to a 4-1 lead in the second before dropping it 7-5. At second doubles Steve Deneroff '68 and Carl Weissgerber '68 played their finest tennis of the season before succumbing 9-7 in the third set.

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